





**VANDERCOOK & SONS, INC.** 3601 WEST TOUHY AVENUE • CHICAGO 45, ILLINOIS

**TELEPHONE ROGERS PARK 1-2100**  
CABLE ADDRESS—VANSONS CHICAGO

April 30, 1958

Mr. Milton Barzman  
Harry Hoffman & Sons Printing  
983 Jefferson Street  
Buffalo, New York

Dear Mr. Barzman:

As mentioned in our letter to you of April 7, we are enclosing a circular - just off the press - which illustrates and describes the new Vandercook Universal I Test Press.

A price sheet listing the standard and optional equipment available for this press is also enclosed for your convenience.

Yours very truly,

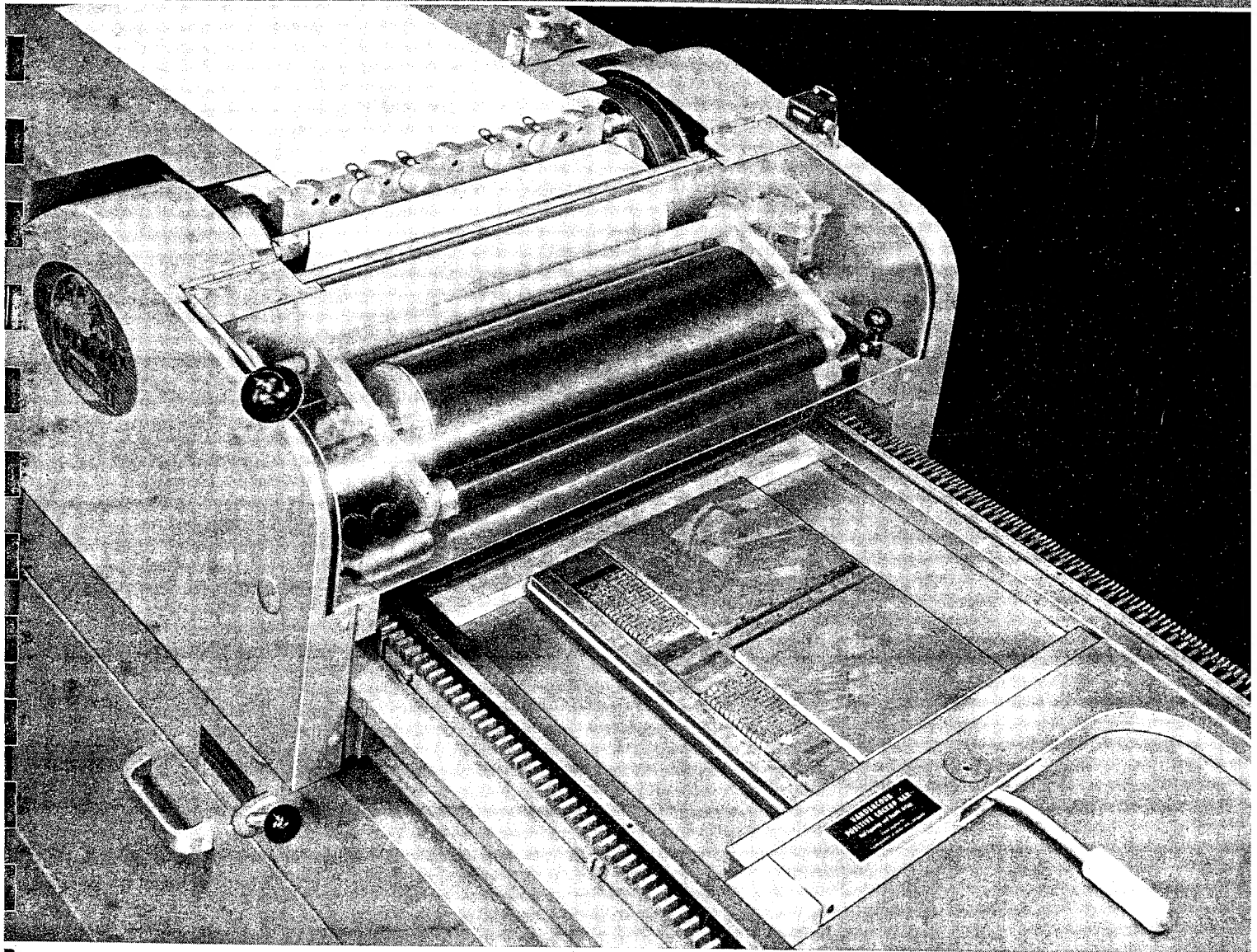
VANDERCOOK & SONS, INC.

A handwritten signature in dark ink, appearing to read "O. F. Duensing", written in a cursive style with a long, sweeping tail.

Sales Manager

O. F. Duensing  
ms  
encl.

# VANDERCOOK UNIVERSAL I TEST PRESS



**VANDERCOOK**

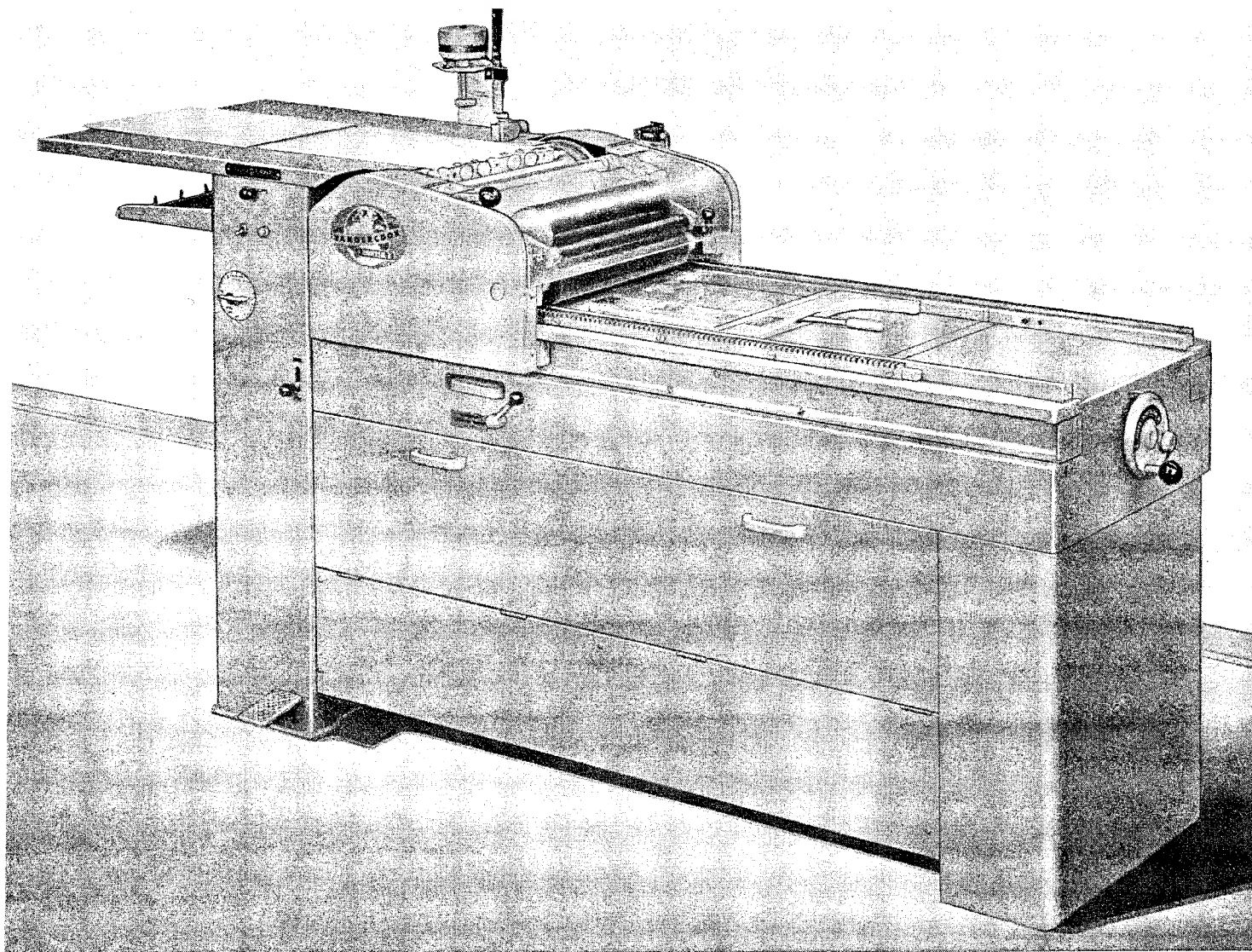
**& SONS, INC.**

*Eastern Sales and Service*  
205 W. 34th St., New York 1, N.Y.  
Telephone BRyant 9-6270

*General Offices, Research Laboratory, Demonstration Room & Factory*  
3601 West Touhy Avenue Chicago 45, Illinois  
Telephone ROgers Park 1-2100

*Western Sales and Service*  
3156 Wilshire Blvd., Los Angeles 5, Calif.  
Telephone DUmkirk 8-9931





### SPECIFICATIONS

Bed Size  $15\frac{1}{2}$ " x 24" . . . Maximum Sheet  $15\frac{1}{4}$ " x 24" . . .  
Maximum Plate or Form 15" x 22" . . . Floor Space  $2\frac{1}{2}$ " x  
7' 3" . . . Net Weight with Standard Equipment 1300 Lbs.  
(add 600 Lbs. for Adjustable Bed, and 200 Lbs. for Power  
Drive) . . . Crated Shipping Weight with Standard Equip-  
ment 1550 Lbs. (add 600 Lbs. for Adjustable Bed, and 200  
Lbs. for Power Drive) . . . Finished in machine tool gray.

### STANDARD EQUIPMENT

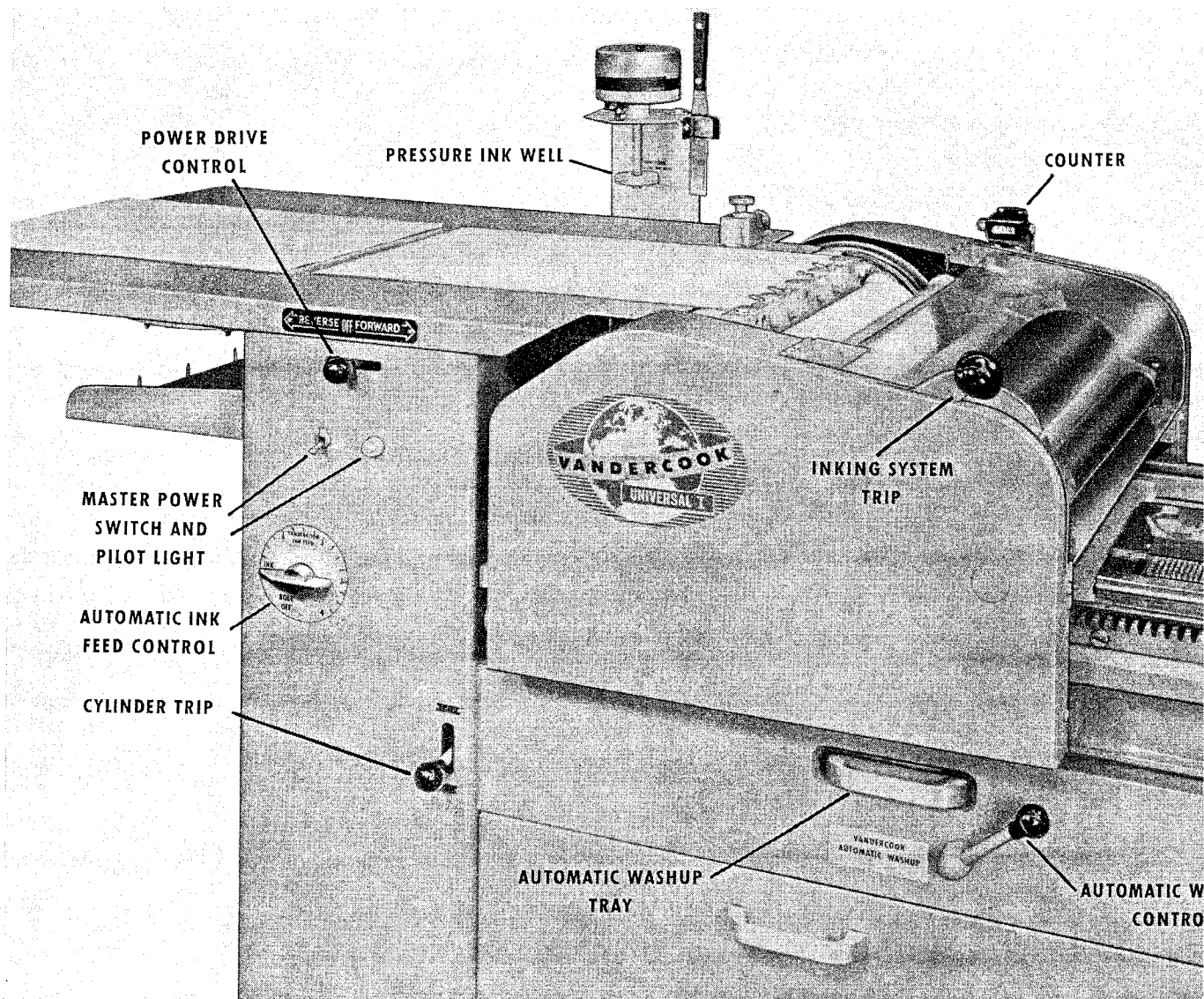
Combination Automatic and Foot Operated Grippers . . .  
Micrometer End and Side Sheet Guides . . . Automatic  
Short Travel Cylinder Trip . . . Plastic Cover for Inking  
System . . . One set Synthetic Form Rollers and Extra  
Roller Stocks . . . Pressure Ink Well . . . Steel Cabinet un-  
der bed equipped with rack for one set of form rollers . . .  
.040" Hard Cylinder Packing . . . 25 Die Cut Drawsheets  
. . . 25 Die Cut Undersheets . . . Head Dead Line Bar . . .  
Foot Lockup Bar . . . Traveling Sheet Delivery Tray . . .  
Necessary Tools.

### OPTIONAL EQUIPMENT

All of the following Optional Equipment can be installed in the cus-  
tomer's plant—except the Adjustable Bed, Special Bed with Galley  
Thickness Bed Plate, Power Drive, Ink Feed, and the Center Side  
Guide, which must be ordered with the press:

- Power Inking and Automatic Washup
- Transparency Equipment with Roller Feed Device for feeding thin acetate sheets
- Power Drive
- Adjustable Bed with range of .240"
- Special Bed with Galley Thickness Bed Plate
- Extra Set Synthetic Rubber Form Rollers with ball bearings, adjusting knobs, and driving gear
- Ink Feed
- Register Plate Base  $14\frac{1}{4}$ " x  $22\frac{1}{2}$ " — for use with Vandercook Register Punch
- Register System for mounted plates
- Sterling Toggle Base in drilled chase
- Hand Frisket Frame
- Positive Lockup Bar
- Split Vibrator for printing with two inks of the same or different color
- Center Side Guide (*not adjustable*)
- Counter
- Dust Cover





ALL CONTROLS ON THE VANDERCOOK UNIVERSAL I TEST PRESS ARE CONVENIENTLY LOCATED .

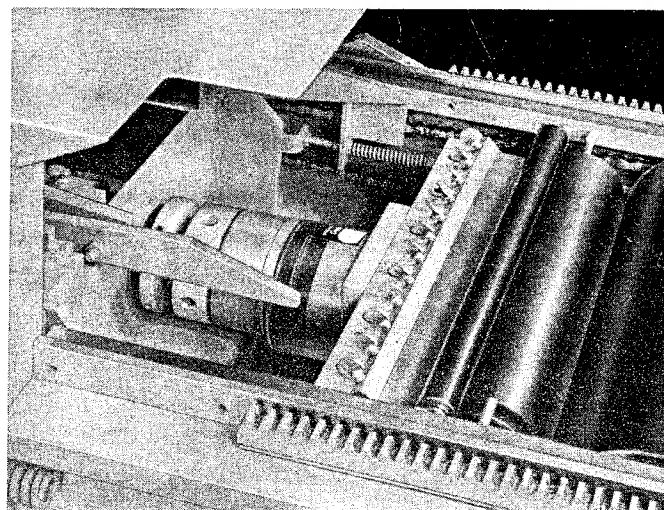
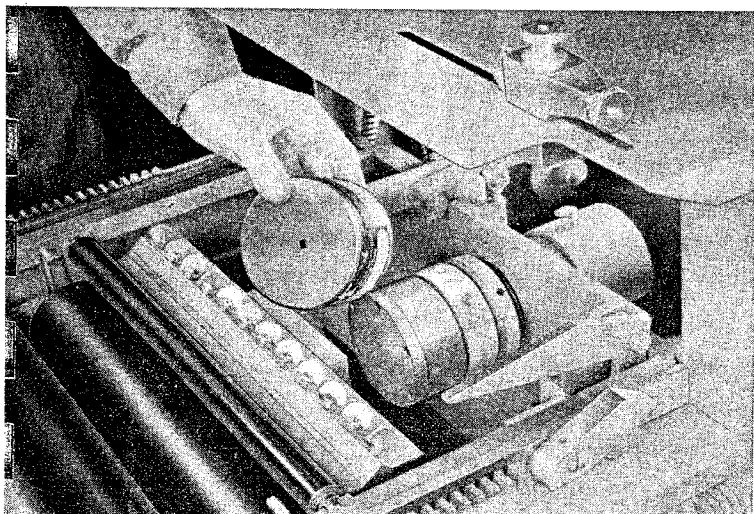
### The Automatic Ink Feed . . .

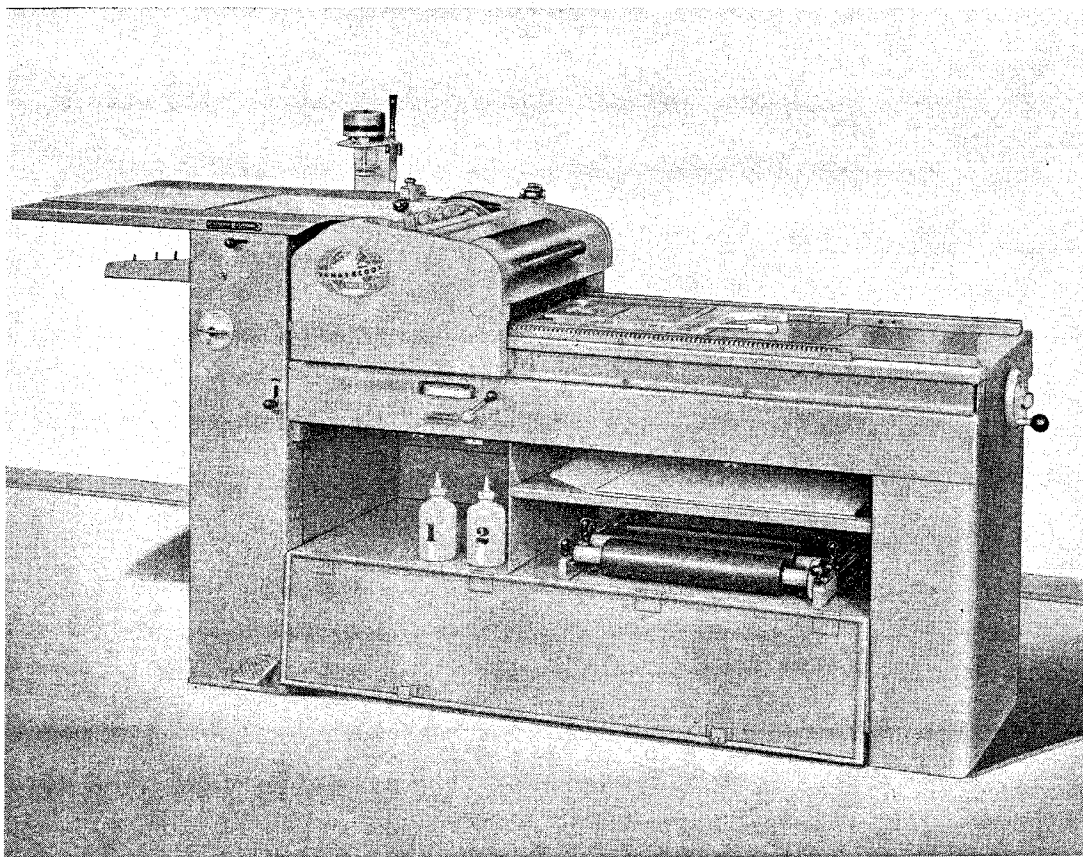
This revolutionary development eliminates the ink fountain entirely, since ink is fed directly from a one-pound ink can, as shown below.

The volume of ink being fed is controlled by a single knob in stepless amounts from 0 to sufficient ink to cover a solid plate the full printing area of the press. Keys are provided to give control of the ink

across the form. No ink is wasted, and ink agitation and fountain washup are eliminated.

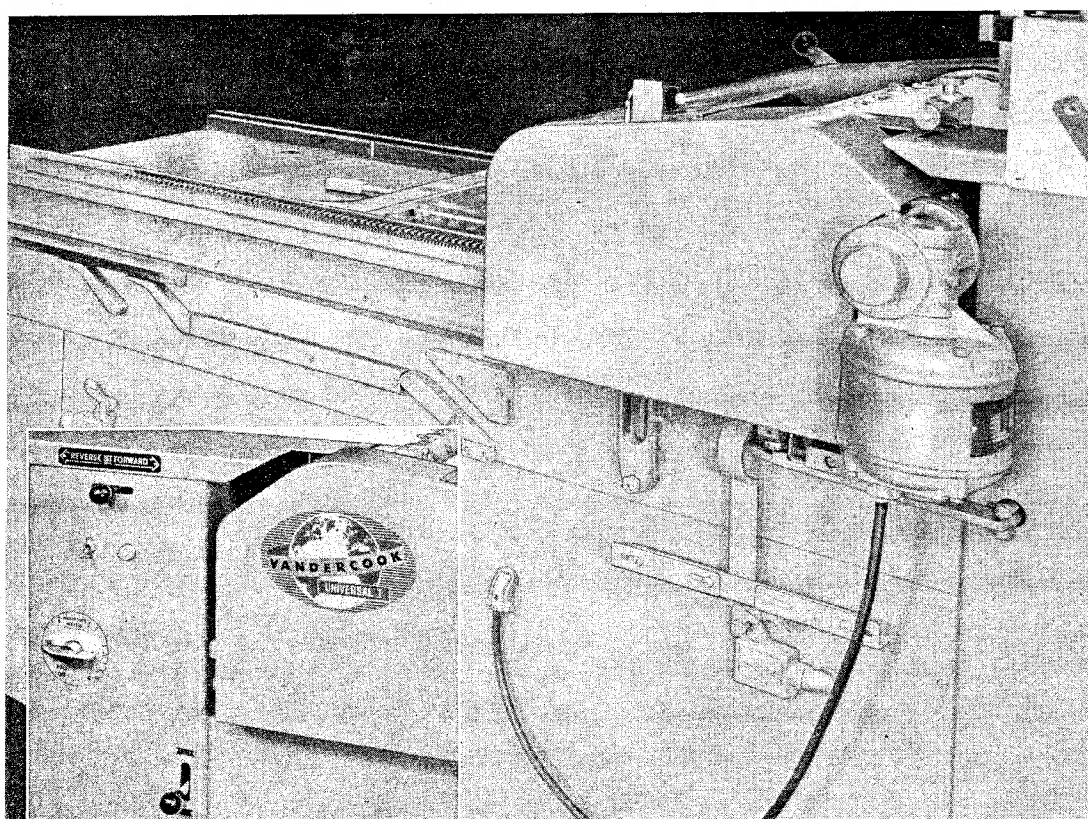
In the second illustration below, the ink can has been fully inserted into position and is ready for operation. To change the color or type of ink being used, a different ink can and key controlled ink spreader are substituted. The  $\frac{3}{16}$ " hole punched in the cover of the can may be sealed with paper when the can is removed.





**Vandercook  
Universal I Test Press  
with cabinet door  
swung down . . .**

The top right hand shelf is wide enough for tympan drawsheets. The lower right hand shelf has brackets for two extra inking rollers complete with ball bearings, adjusting knobs and driving gear. On the left hand shelf are the two plastic containers, numbered 1 and 2, that are standard equipment with the Automatic Washup. The final fluid in plastic container No. 2 should be more volatile than the fluid in container No. 1.

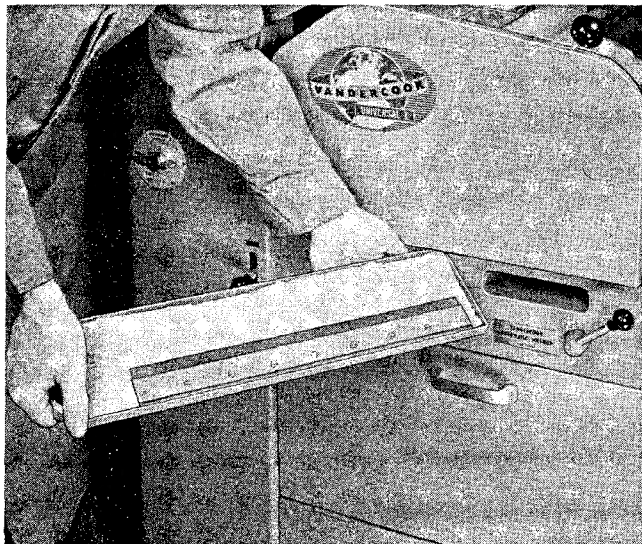


**Vandercook  
Universal I Power  
Drive . . .**

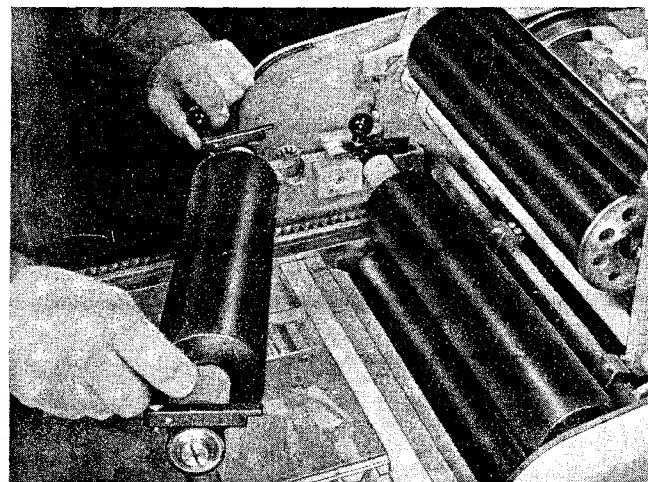
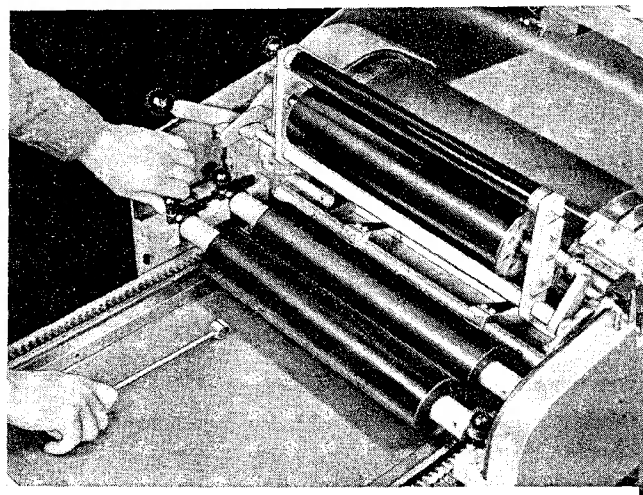
Press will operate only when toggle switch (insert) is thrown so that pilot light is on. Movement of cylinder carriage is controlled by black knob. Mechanism will hold knob in forward or reverse positions. Cylinder carriage stops automatically at either end of its travel. A speed of approximately 300 impressions per hour can be maintained.



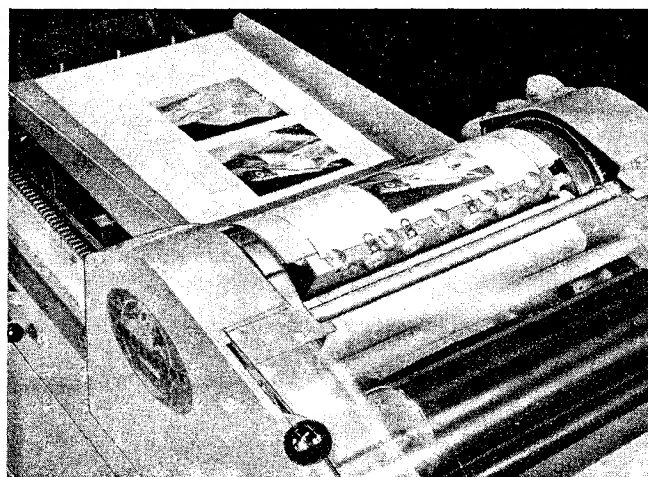
**Adjusting Form Rollers** Height of form rollers is quickly adjusted without tools by means of four adjusting knobs. Rollers are adjusted by observing the width of streak left on the Vandercook Roller Setting Gauge. The inking system has no other adjustments.



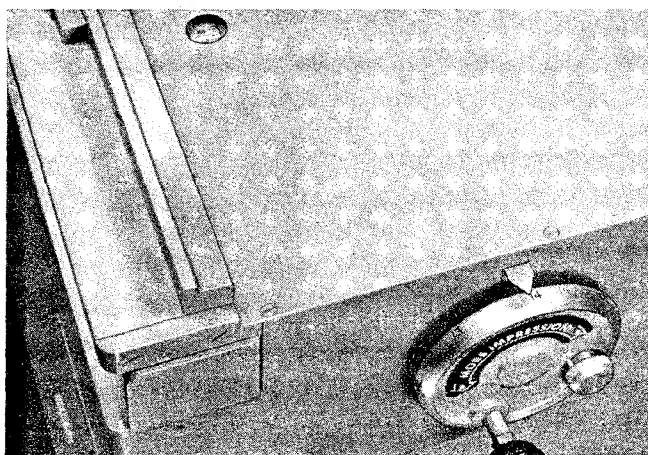
**Automatic Washup** View above shows the Automatic Washup Tray removed from the press. Blotting paper is placed in the bottom of the tray to absorb the ink and solvent. To wash up press, it is only necessary to bring nylon doctor blade into contact with the ink drum by means of the lever, and apply solvent from the plastic containers.



**Changing Form Rollers** Form rollers may be changed in 20 seconds without tools. The form roller ball bearings and height adjusting mechanism are lifted out with the rollers. Once form rollers are adjusted, they need not be readjusted when changed.

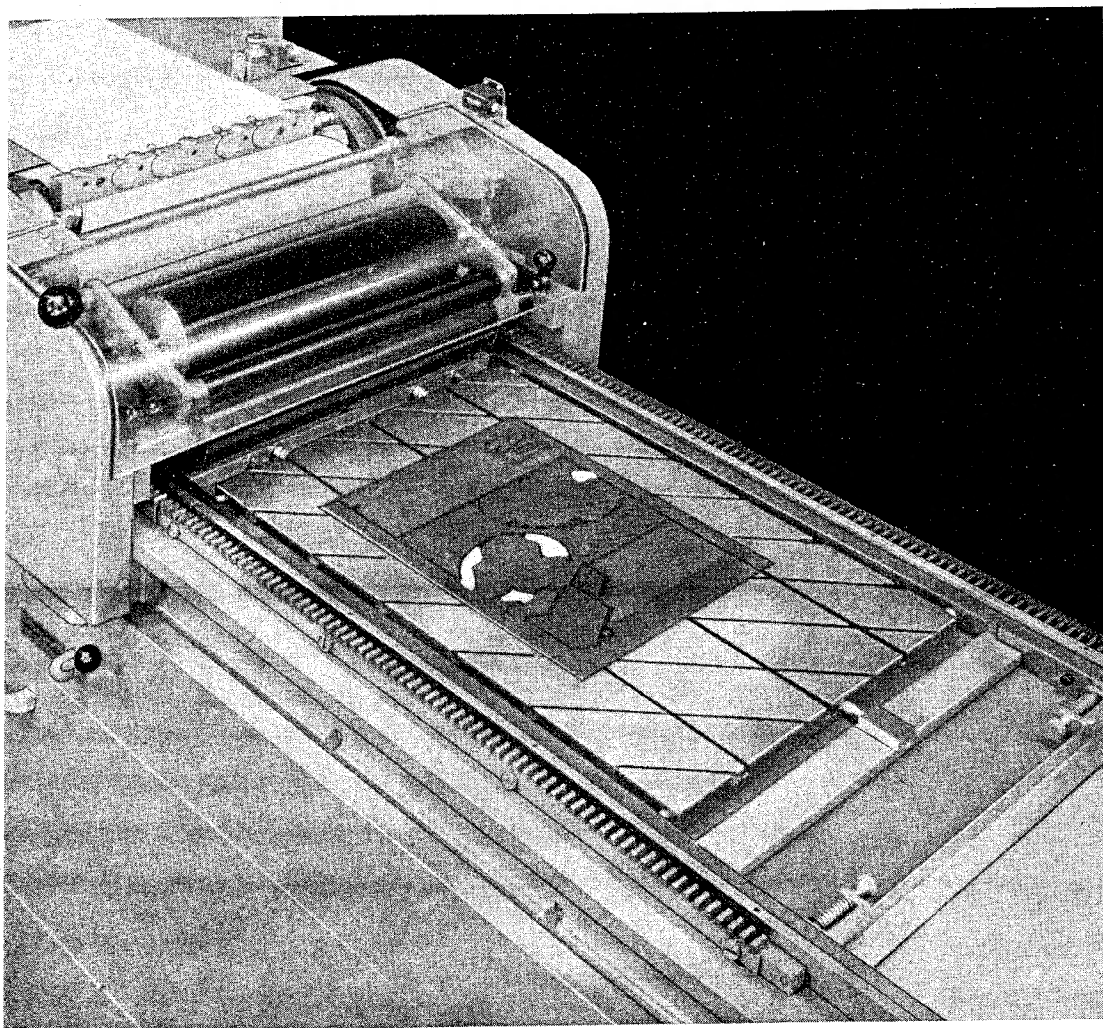


**Sheet Delivery Tray** A convenient tray for the printed sheets travels with the cylinder. This reduces sheet handling to a minimum.



**Adjustable Bed** The adjustable bed provides instant and minute control over impression by raising or lowering the bed by means of the hand wheel. The range of adjustment of the bed is .240", which makes it possible to prove plates of all ordinary thicknesses without changing the plate base. The wedge principle is used, and we guarantee the same accuracy and rigidity as on our presses without adjustable beds.



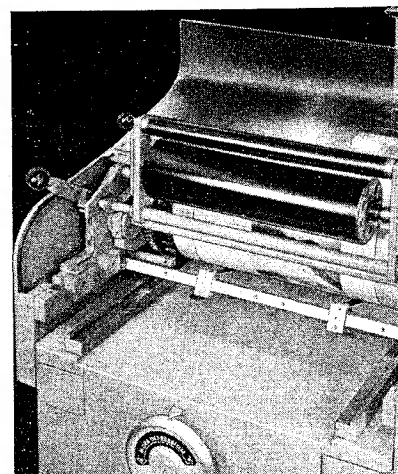
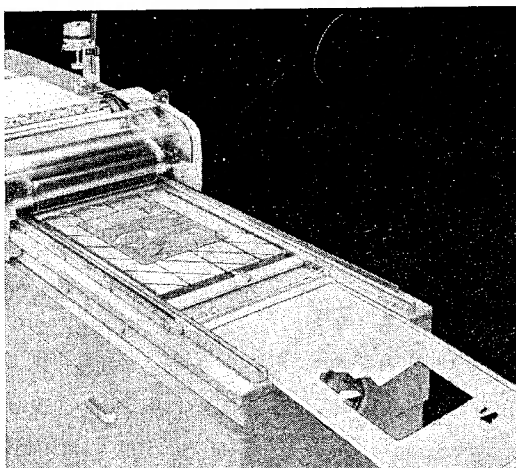
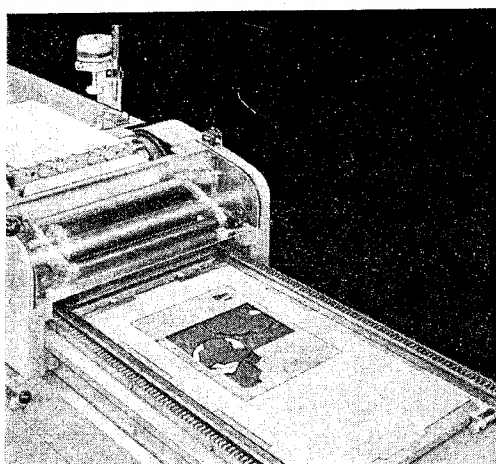


### Register Plate Base For Automatic Register

To hold plates firmly on base,  $\frac{3}{16}$ " holes are punched through the center of register marks at the top and bottom with the Vandercook Register Punch. The plate is then placed on adjustable pins in the plate base. Clamps are provided to hold down warped plates, and adjusting screws for shifting the plate base when registering one or more presses or when correcting for the inaccurate punching of plates.

**Frisket Frame**—illustrated in the lower left, is supplied for positioning a paper frisket over the plate to prevent the dead metal from printing. The frisket frame is instantly detachable. Securing the frisket paper to the frame is done with masking tape. After the paper has been attached (1) an impression is pulled by feeding a sheet of carbon paper to the cylinder, (2) inserting a piece of cardboard between the frisket paper and plate, and then (3) cutting out the live area to print.

**Sheet Holders** Two adjustable spring steel holders are provided to hold sheet tightly to the cylinder during printing. They help to prevent slurs and wrinkles, and assist in maintaining register.



## **A Brief Outline Of The Procedure for Pulling Sharp Opaque Transparent Proofs On The Vandercook Universal I Test Press**

In order to obtain best results, the form or plate should always be locked either in a chase or on the bed of the press. Pulling proofs of type on a galley is never recommended, since galleys are not sufficiently accurate to obtain quality results. For the same reason, best results cannot be obtained if the press is equipped with a galley thickness bed plate.

### **STEP ONE**

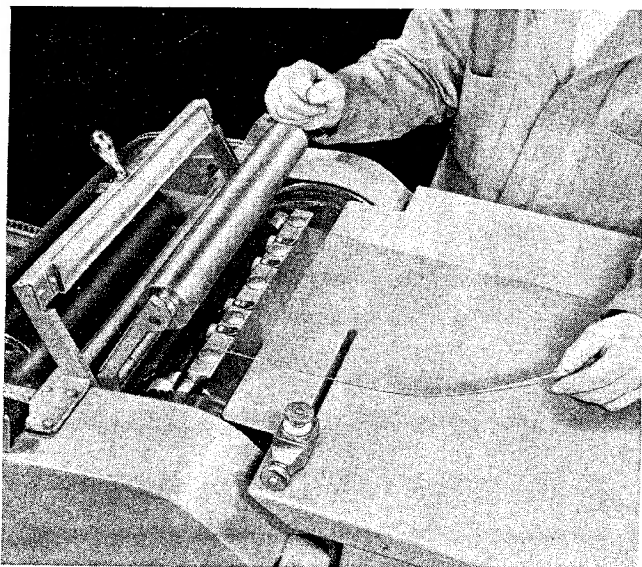
After the form has been locked on the bed, the next step is to ink it. This operation is most efficiently and uniformly done on the Vandercook Universal I Test Press, which is equipped with a power driven inking system.

### **STEP TWO**

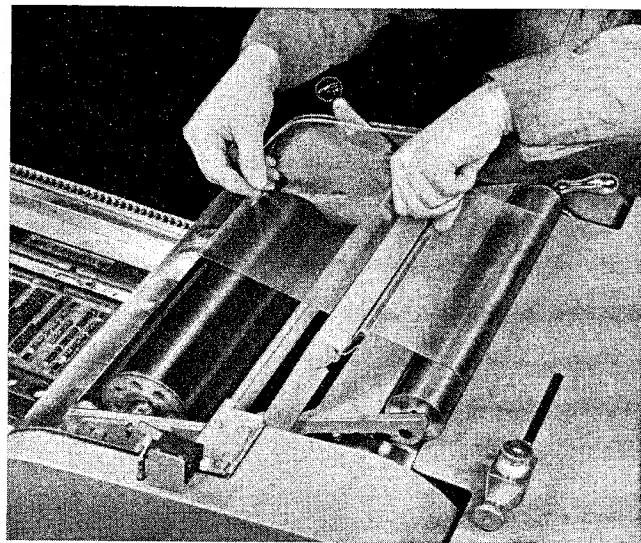
Now, a sheet of acetate is fed to the grippers, as shown in the illustration below. In this operation, care must be taken that the sheet being fed is neither wrinkled nor bunched along the gripper edge. The polished steel roller is then lowered so it rests on the acetate.

### **STEP THREE**

The acetate is now carefully smoothed out on the feed board, then picked up and brought forward over the steel roller so that it lays flat on the plastic cover over inking system. After the acetate has been brought forward, the pad attached to frame above the roller is brought down against

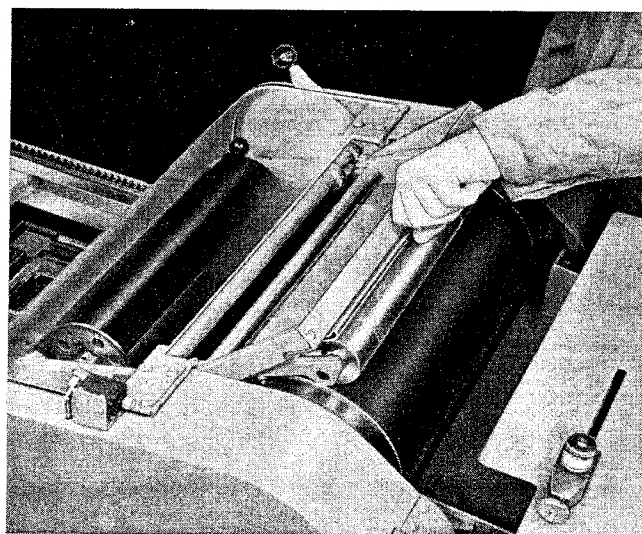


the steel roller, as shown in illustration below, to keep the acetate smooth and provide some tension for holding the acetate flat against the steel roller.



### **STEP FOUR**

Next, pressing down lightly on the handle of the pad frame, as pictured below, the operator moves the cylinder forward to take an impression on the acetate. When the entire sheet has been fed to the cylinder, both the roller and frame are raised out of the way, to avoid contact with the impression cylinder as it makes its second revolution.

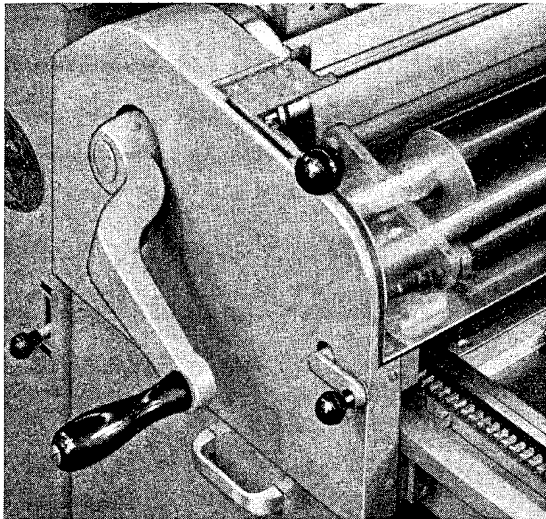


The cylinder is now returned to the feed board, and another impression made in order to obtain the maximum opacity. A third impression is sometimes advisable. These multiple impressions are possible because the Vandercook Papercote Blanket will hold the acetate securely in place. After the final impression, the acetate is peeled off as the cylinder is returned to the feed board.

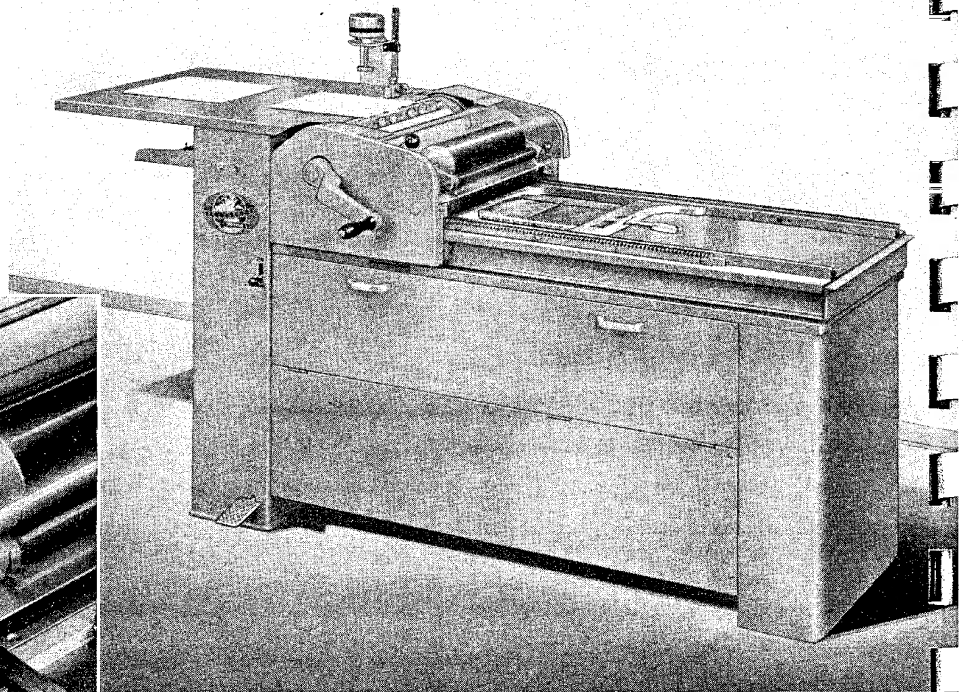
## VANDERCOOK UNIVERSAL I HAND PRESS

- with power inking
- without adjustable bed

The illustration on the right shows the Universal I equipped for hand operation. This press is provided with power driven inking system and the conventional stationary bed instead of the adjustable bed.

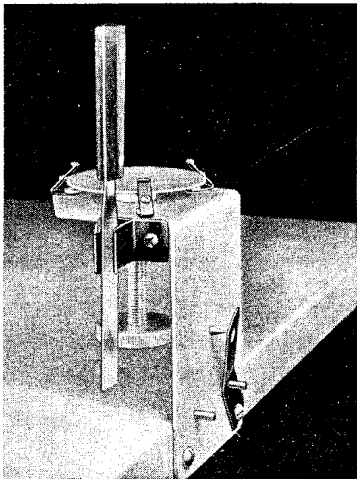


*Illustration on the left shows a closeup of the hand crank provided on the Universal I for ink distribution when power operated inking is not ordered.*



## VANDERCOOK PRESSURE INK WELL

This ingenious device is standard equipment on all Vandercook Universal I Test Presses, and saves operators many steps, keeps ink from being exposed to air, and thereby eliminates waste due to inks gumming up or drying in the can.



*Illustration on left shows the mechanism of the Pressure Ink Well with ink can removed.*

After the diaphragm has been inserted, a hole is punched in the bottom of the can, as shown in the illustration below.

The ink is forced through hole in bottom of can and removed when needed, as shown below.

On the right, operator is inserting a plastic diaphragm in place of the cover.

